

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050523\
 Data File : VN077597.D
 Acq On : 05 May 2023 17:41
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/08/2023
 Supervised By : Mahesh Dadoda 05/08/2023

Quant Time: May 06 02:34:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 28 16:20:59 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.819	128	54986	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	397662	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	422841	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	157715	32.173	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.233%			
60) 4-Bromofluorobenzene	12.854	95	228772	30.882	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.933%			
63) Toluene-d8	10.571	98	448569	30.106	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.367%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	161876	23.647	ug/l	100
3) Chloromethane	2.372	50	131247	25.953	ug/l	94
4) Vinyl Chloride	2.525	62	159904	22.735	ug/l	93
5) Bromomethane	2.972	94	115116	19.389	ug/l	91
6) Chloroethane	3.131	64	111003	21.916	ug/l #	84
7) Trichlorofluoromethane	3.507	101	244317	23.554	ug/l	94
8) Diethyl Ether	3.966	74	90789	25.012	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.384	101	130294	22.225	ug/l	73
10) 1,1-Dichloroethene	4.354	96	129696	23.061	ug/l	86
11) Methyl Iodide	4.607	142	149899	21.725	ug/l	94
12) Methyl Acetate	5.042	43	226082	27.873	ug/l	95
13) Acrolein	4.190	56	143746	147.809	ug/l	99
14) Acrylonitrile	5.731	53	312391	125.536	ug/l	99
15) Acetone	4.437	58	104195	131.144	ug/l	92
16) Carbon Disulfide	4.725	76	299385	21.228	ug/l	97
17) Allyl chloride	5.037	41	154452	25.045	ug/l	93
18) Methylene Chloride	5.289	84	155124	23.381	ug/l	93
19) trans-1,2-Dichloroethene	5.789	96	137888	22.189	ug/l	98
20) Diisopropyl ether	6.683	45	381759	26.593	ug/l	95
21) 1,1-Dichloroethane	6.583	63	254164	24.227	ug/l	96
22) cis-1,2-Dichloroethene	7.495	96	166716	22.400	ug/l	93
23) tert-Butyl Alcohol	5.525	59	116457	108.478	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	462099	23.689	ug/l	97
25) Chloroform	7.972	83	289715	24.027	ug/l	100
26) Cyclohexane	8.266	56	200313	23.407	ug/l #	97
29) 1,1-Dichloropropene	8.377	75	196777	23.475	ug/l	99
30) 2-Butanone	7.489	43	412884	134.351	ug/l	94
31) 2,2-Dichloropropane	7.495	77	226767	23.121	ug/l	100
32) 1,1,1-Trichloroethane	8.172	97	261059	24.129	ug/l	98
33) Carbon Tetrachloride	8.366	117	217080	23.116	ug/l	97
34) Benzene	8.613	78	595315	23.094	ug/l	95
35) Methacrylonitrile	7.789	41	88667	28.258	ug/l	91
36) 1,2-Dichloroethane	8.677	62	218450	24.814	ug/l	100
37) Trichloroethene	9.354	130	143068	21.959	ug/l	96
38) Methylcyclohexane	9.607	83	238377	21.646	ug/l	94
39) 1,2-Dichloropropane	9.624	63	147463	24.698	ug/l	100
40) Dibromomethane	9.713	93	113077	24.015	ug/l	97
41) Bromodichloromethane	9.889	83	219729	23.628	ug/l #	91
42) Vinyl Acetate	6.613	43	1170966	120.983	ug/l	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	163223	27.440	ug/l	# 78
44) Isopropyl Acetate	8.695	43	286071	27.148	ug/l	93
45) 1,4-Dioxane	9.701	88	59375	464.635	ug/l	95
46) Methyl methacrylate	9.683	41	130295	27.170	ug/l	94
47) n-amyl Acetate	12.495	43	209322	24.781	ug/l	99
48) t-1,3-Dichloropropene	10.836	75	215378	22.748	ug/l	99
49) cis-1,3-Dichloropropene	10.313	75	237721	23.260	ug/l	# 92
50) 1,1,2-Trichloroethane	11.018	97	156808	23.460	ug/l	96
51) Ethyl methacrylate	10.877	69	221038	23.886	ug/l	90
52) 1,3-Dichloropropane	11.166	76	260222	23.991	ug/l	99
53) Dibromochloromethane	11.360	129	160291	23.293	ug/l	97
54) 1,2-Dibromoethane	11.471	107	157614	23.042	ug/l	99
55) 2-Chloroethyl vinyl ether	10.160	63	297475	97.963	ug/l	98
56) Bromoform	12.577	173	93010	21.669	ug/l	# 99
58) 4-Methyl-2-Pentanone	10.448	43	849275	139.465	ug/l	95
59) 2-Hexanone	11.195	43	599564	133.638	ug/l	96
61) Tetrachloroethene	11.107	164	114472	23.177	ug/l	92
62) Toluene	10.636	91	675069	23.738	ug/l	98
64) Chlorobenzene	11.895	112	397189	22.863	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.960	131	145938	23.506	ug/l	97
66) Ethyl Benzene	11.965	91	710560	22.883	ug/l	98
67) m/p-Xylenes	12.071	106	541193	44.757	ug/l	94
68) o-Xylene	12.401	106	269498	22.438	ug/l	95
69) Styrene	12.413	104	424874	22.749	ug/l	98
70) Isopropylbenzene	12.695	105	680432	22.319	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.936	83	221193	23.818	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	191401m	24.229	ug/l	
73) Bromobenzene	12.983	156	146324	22.319	ug/l	95
74) n-propylbenzene	13.036	91	710670	20.948	ug/l	99
75) 2-Chlorotoluene	13.124	91	464306	22.189	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	451304	19.204	ug/l	99
77) t-1,4-Dichloro-2-butene	12.736	75	54826	21.013	ug/l	88
78) 4-Chlorotoluene	13.224	91	443419	22.383	ug/l	97
79) tert-butylbenzene	13.442	119	419744	19.308	ug/l	99
80) 1,2,4-Trimethylbenzene	13.489	105	382446	17.695	ug/l	97
81) sec-Butylbenzene	13.618	105	500990	16.531	ug/l	100
82) p-Isopropyltoluene	13.730	119	381638	16.070	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	246052	21.453	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	228866	20.196	ug/l	99
85) n-Butylbenzene	14.059	91	228187	12.434	ug/l	99
86) Hexachloroethane	14.336	117	87911	18.273	ug/l	98
87) 1,2-Dichlorobenzene	14.107	146	239950	20.563	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	40398	23.534	ug/l	90
89) 1,2,4-Trichlorobenzene	15.395	180	27449	8.963	ug/l	99
90) Hexachlorobutadiene	15.501	225	18951	7.608	ug/l	97
91) Naphthalene	15.642	128	80417	7.193	ug/l	99
92) 1,2,3-Trichlorobenzene	15.848	180	22781	7.950	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

